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NOVEL 1,3,5-TRIS(ARYLAMINO)BENZENES

## Field of the Invention

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This invention relates to novel 1,3,5-tris(arylamino)-  
10 benzenes useful as organic semiconductors. More particularly,  
the invention relates to novel 1,3,5-tris(arylamino)benzenes that  
are superior in reversibility of oxidation-reduction process and can  
form stable organic semiconductor film readily by a coating method  
or a vacuum deposition method. Accordingly they are suitable for  
15 use as organic semiconductors in a variety of electronic devices  
such as electric charge transport agents in electrophotographic  
devices or organic semiconductors in solar batteries.

## Background Art

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In recent years, organic semiconductors comprised of  
amorphous film of organic substances are in wide use in a variety  
of electronic devices. For example, an organic amorphous film is  
formed by preparing a coating composition comprised of a binder  
25 resin such as polycarbonate resin and a low molecular weight  
organic compound such as a triphenylamine derivative having  
photoelectric function dissolved in a suitable organic solvent and  
then by coating and drying the composition. The film thus formed  
is used as a positive hole transport layer in electrophotographic  
30 devices, as described in JP-A-1999-174707. Similarly, an organic  
amorphous film is formed by preparing a coating composition  
comprised of a so-called star-burst compound dissolved in a  
suitable organic solvent and then by coating and drying the  
composition. The film thus formed is used as an organic p-type  
35 semiconductor film in solar batteries, as described in JP-A-2000-